

**MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous)**

THIRUVANANTHAPURAM-695015

Department of Electronics and Communication Engineering

MINUTES OF THE NINTH MEETING OF BOARD OF STUDIES

VENUE: SENATUS HALL / ONLINE

DATE: 27:02:2026(FRIDAY)

TIME: 10:00AM

Members present:

1	Dr. Luxy Mathews, Associate Professor & Head	Chairman
2	Dr. P.P. Deepthi, Professor, Dept. of ECE, NIT Calicut	Member
3	Dr. S. M. Sameer, Professor, Dept. of ECE, NIT Calicut	Member
4	Dr. Deepak Mishra, Professor, Dept. of Avionics, IIST	Member
5	Mr. S. Krishna Kumar Rao, Senior Director, C DAC	Member
6	Mrs. Jijina N, Asst. Professor, Dept. of ECE, CET	Member
7	Dr. S. Viswanatha Rao, Professor & Principal	Member
8	Dr. Paul Thomas, Professor & Dean (PGSR)	Member
9	Dr. M. J. Jayashree, Professor & Academic Dean (UG)	Member
10	Dr. Jayakumari J, Professor & International Liaison Officer	Member
11	Dr. Ancy S. Anselam, Assoc. Professor & AHoD	Member
12	Dr. Swapna P.S., Assoc. Professor	Member
13	Dr. Sreedevi P, Assoc. Professor	Member
14	Dr. Lani Rachel Mathew, Assoc. Professor	Member
15	Ms. Deepa P.L., Asst. Professor	Member
16	Mr. Niyas K. Haneefa, Asst. Professor	Member
17	Mr. Jinu Baby, Asst. Professor	Member
18	Mr. Anoop K. Johnson, Asst. Professor	Member
19	Ms. Ann Mary Alex, Asst. Professor	Member
20	Mr. Shiras S N, Asst. Professor	Member
21	Mr. Sherry Varghese George, Asst. Professor	Member
22	Ms. Amritha B.J., Asst. Professor	Member
23	Mr. Jithin M George, Asst. Professor	Member
24	Ms. Salga Ann Jacob, Asst. Professor	Member
25	Dr. Vineetha Mathai, Asst. Professor	Member
26	Ms. Gouri Nandana, Asst. Professor	Member
27	Mr. Alex V	Member
28	Dr. Aswathy Madhu	Member
29	Ms. Teena Rajan, Asst. Professor	Member Secretary

Members on leave: Dr. P Sreelatha, Dr. Babita Roselind Jose, Dr. Manoj B S

Item Sl. No.	Section 1 Procedural
EC:BS 9.01	a. Invocation
	b. Welcome Note by Chair
	c. Confirmation of the Minutes of the eighth meeting of the Board of Studies held on 29/04/2025.
	<p>The meeting began with a moment of silent prayer.</p> <p>The Secretary reported that the required quorum was present, with 20 members in attendance.</p> <p>The Chairman welcomed all members to the Ninth Meeting of the Board of Studies.</p> <p>The minutes of the Eighth Meeting of the Board of Studies were reviewed and confirmed by the members.</p>
EC:BS 9.02	Report on the actions taken/actions pending on the pertinent decisions in the Minutes of the seventh meeting of the Board of Studies held on 29/04/2025.
	In the eighth meeting of the Board of Studies which was held on 29/04/2025, major decisions were on the curriculum of UG programme “Electronics and Communication Engineering” – 2023 scheme. Action has been taken on all pertinent decisions.

Action taken Report(Eighth meeting)	
EC:BS 8.04	<p>Considering the Third year syllabi of the existing UG programme B.Tech in "Electronics and Communication Engineering" – 2023 scheme.</p> <p>In the course Analog and Digital Communication (Semester 5), Dr. Deepthi and Dr. Sameer suggested the inclusion of basic concepts related to M-ary modulation schemes and proposed modifications to the last module of the course.</p> <p>For the Communication Lab course, Dr. Deepthi recommended that, instead of using only sinusoidal signals for experimental analysis, arbitrary signals should also be employed to provide broader exposure to practical scenarios.</p> <p>Regarding the Elective Courses such as Digital System Design, Computer Architecture, Embedded Systems etc. Rao Sir emphasized the importance of practical exposure and suggested the inclusion of hands-on sessions.</p> <p>In response, it was decided to include a note in the respective course syllabi stating that "hands-on sessions may be given" to encourage implementation of practical learning components.</p> <p>Decision</p> <p>He also recommended that topics related to RISC-V processors can be included in the 'Computer Architecture' course syllabus during the next revision. In the Satellite Communication course, Dr. Sameer and Dr. Deepak recommended adding content related to Remote Sensing Applications to improve the relevance and scope of the course.</p> <p>For the Honour Courses, Dr. Deepthi advised that the learning outcomes should be mapped to higher-order cognitive levels.</p> <p>The BoS experts offered general suggestions, including the need to re-examine the Course Outcome (CO) levels, as well as to ensure a coherent and logical flow of topics across the curriculum.</p> <p>The suggestions were acknowledged; changes to the possible extent will be incorporated in the current revision cycle, while the rest will be given due consideration in future curriculum updates.</p> <p>Action taken</p> <p>Considered and included the changes in the syllabus as per the above suggestions.</p>
	<p>Sd/- Member Secretary (Ms.Teena Rajan)</p> <p>Sd/- CHAIRMAN (Dr. Luxy Mathews)</p>
	<p>Actions have been taken on all pertinent decisions. Board of Studies(BOS) resolved to take the action taken report on record, and to proceed accordingly.</p>
EC:BS 9.03	<p>Report on overview of the achievements and activities in the Department after the seventh meeting of Board of Studies held on 04/04/2024.</p>
Gist	<p>Chairman presented a PPT showing the achievements and activities in the department after the eighth BoS meeting that was held on 29/04/2025.</p>
EC:BS 9.04	<p>Considering the fourth year syllabi of the existing UG programme B.Tech in "Electronics and Communication Engineering" – 2023 scheme.</p>
Decision	<p>The Chairman presented the curriculum and Fourth year syllabi of the existing UG programme "Electronics and Communication Engineering" – 2023 scheme.</p> <p>Dr. Sameer suggested the following modifications to the Wireless Communication syllabus :</p> <p>Module 1:</p> <ul style="list-style-type: none"> ○ Include the topic Power control for reducing interference. ○ Add Capacity improvement techniques such as cell splitting and sectoring.

- Module 2:
 - Include Empirical path loss models for urban outdoor and indoor propagation.
- Module 3:
 - Replace the topic “Time varying channel impulse response” with “Impulse response model of a wireless channel.”
 - Include Fading distributions, Level Crossing Rate (LCR), and Average Fade Duration (AFD).
 - Remove the topics Capacity of AWGN channel and include Analysis of Selection Combining.
- Module 4:
 - Include Performance of digital modulation schemes over flat fading channels.
- Module 5:
 - Recheck the relevance of SNR and BER performance in the syllabus.
- He also suggested that at least one Course Outcome (CO) should be framed at the Analyse level.

Computer Networks

- Module 3: Include Implementation of network software – Socket Programming.
- Module 5: Include QoS issues in network switches.

Elective Course: Modern Communication Systems

It was suggested that the **title of the course may be revised**.
Proposed titles include:

- Next Generation Wireless Communication Systems, **or**
- Broadband and Next Generation Networks.

Dr. Deepthi suggested the following revisions:

Course: Information Theory and Coding

- Ensure that the main syllabus and short syllabus are consistent.
- **Construction of instantaneous codes** may be removed and **Huffman coding** may be included instead.
- Add **Capacity Achieving Codes – LDPC Codes**.
- Include the textbook **Bernard Sklar, Digital Communications**.
- **Differential entropy** may be moved from the waveform channels section, and topics may be **rearranged within the modules** for better flow.
- **Repetition code** and **Single parity check code** should be included under **Linear Block Codes**.
- Include **BCH codes** in **Module 4**.

	<ul style="list-style-type: none"> • In Module 5, recheck the inclusion of Capacity Achieving Codes and Hamming Code. • CO1 may be modified to the Understand level. <p>She also reminded the department to embed Sustainable Development Goals (SDGs) in the Course Outcomes (COs) as per the new NBA framework.</p> <p>Comprehensive Course Viva It was suggested to recheck the Course Outcomes (COs) and evaluation pattern for the comprehensive course viva.</p> <p>Internship / Project Component It was pointed out that the syllabus mentions both project and internship, whereas the component is intended to be only project.</p> <p>Advanced Communication Lab It was suggested to modify Experiment 5 in the syllabus.</p> <p>The suggestions were acknowledged; changes to the possible extent will be incorporated in the current revision cycle.</p>
EC:BS 9.05	Consideration of 2026 scheme, curriculum and syllabi of the MTech programme “IoT and Sensor Systems ”
	<p>The Chairman presented the 2026 scheme, curriculum and syllabi of PG programme “IoT and Sensor Systems”</p> <p>Dr. Deepthi commented that the syllabus of Random Process and Applications appears extensive and may be reviewed for possible reduction of content.</p>
EC:BS 9.06	Consideration of list of MOOC Courses for PG & UG – Honours and Minor courses.
Decision	<p>The Chairman presented the list of MOOC Courses for UG – Honours and Minor courses.</p> <p>While considering the list of MOOC courses for UG & PG Honours and Minor programmes, Dr. Deepak Mishra inquired how credits would be achieved as the list includes both 12-week and 8-week courses.</p> <p>It was clarified that if a student chooses an 8-week course, another 8-week course may be taken to earn the required credits.</p> <p>BoS approved the list.</p>
EC:BS 9.07	Consideration of additional list of examiners for question paper setting and evaluations.
Decision	The Chairman presented the List of External examiners for Question Paper Setting, Project and Viva-voce, Scrutiny of Question and Answer papers.

	BoS approved the same.
EC:BS 9.08	Reporting of Semester results of B.Tech and M.Tech programmes after eighth Board of Studies meeting
Decision	The Chairman presented the B.Tech and M.Tech End Semester Examination results S7(Autonomy), S3(Autonomy), S5(Autonomy), S1(Autonomy) and M1 and M3(Autonomy) after eighth BoS meeting. BoS members noted the results.
EC:BS 9.09	<p>Any other matter</p> <p>Dr. Deepak Mishra inquired about the M.Tech students' project work and whether it is carried out within the institution or outside. He also asked about the placement status and employability aspects of the students and suggested that electives may be designed to enhance employability.</p> <p>Dr. Deepthi P. P. highlighted the importance of projects from the perspective of the new NBA 2025 accreditation framework, noting that projects should involve multiple engineering activities with appropriate levels of complexity, including research-oriented work and stakeholder involvement.</p>

Member Secretary proposed the Vote of Thanks.

Meeting adjourned at 11.10am.

Sd/-
Member Secretary
(Ms.Teena Rajan)

Date.06/3/26

Sd/-
CHAIRMAN
(Dr. Luxy Mathews)

Approved with permission for circulation among the BoS Members

-----*-----